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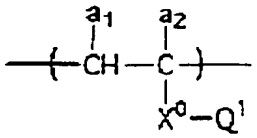
TITLE : OIL-BASE INK FOR INK JET TYPE PLATE PRINTING PLATE



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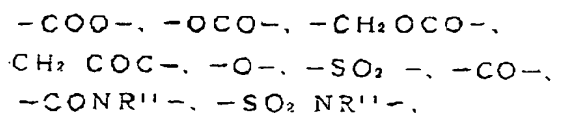

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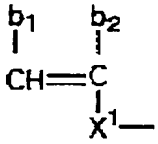

III

ABSTRACT : PROBLEM TO BE SOLVED: To obtain an oil-base ink having a good printability by using non- water-dispersed resin particles obtained by polymerizing a monofunctional monomer in the presence of a dispersion-stabilizing resin which is a comb copolymer comprising a macromonomer being a soluble part and a monofunctional monomer being an insoluble part and colloidally dispersed in a nonaqueous medium having specified electrical properties.

SOLUTION: The plate printing plate is prepared by forming a plate having an image receiving layer containing zinc oxide and a binder resin and having a contact angle of 50° or above with planographic water on a water-resistant support and forming an image on the layer by an ink jet system by using an ink containing dispersible resin particles in a nonaqueous carrier fluid having an electrical resistance of $10^9\Omega$ or above and a permittivity of 3.5 or below. The dispersible resin particles are obtained by polymerizing a monofunctional monomer in the presence of colloidal copolymer comprising a main component of formula I (wherein X^0 is formula II or phenylene; R" is hydrogen or the like; Q' is an alkyl or the like; and a_1 and a_2 are each H, a halogen or the like), a macromonomer terminated with formula III (wherein $R^1=X^0$; and b_1 and b_2 are each the same as a_1 or a_2) and a monofunctional monomer.

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